

**Amendments to the Claims**

The listing of claims set forth below will replace all prior versions and listings of claims in the application.

1. (Presently Amended) A method of profiling mRNA production during stages comprising:

isolating a plurality of cells from a subject; wherein the subject is human,

analyzing the mRNA production in the cells from the subject, wherein the mRNA encode 2 or more genes selected from the group consisting of ~~4-ACT~~  $\alpha$ 1-~~ACT~~, cyclin D1, HSP27, weel, GAD and HES1;

quantitating the levels of the mRNA, and comparing the levels of mRNA in the subject to a control,

wherein the subject is in need of a diagnosis of a disease, wherein the disease is Alzheimer's disease.

Claims 2-56. (canceled)

57. (Presently Amended) The method according to claim 1, wherein the mRNA comprise RNA transcripts encoded by two or more genes selected from the group consisting of ~~4-ACT~~  $\alpha$ 1-~~ACT~~, cyclin D1, HSP27, and weel.

Claims 58-59 (Canceled)

60. (Previously Presented) The method of claim 1, wherein the isolating a plurality of cells is carried out from a blood sample collected from a living patient.

61. (New) The method of claim 57, wherein the isolating a plurality of cells is carried out from a blood sample collected from a living patient.